PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Anslation interior	PATENT COOPE	RATION TRE	ATY	PCT/JP2003		
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MILE	NATIONAL PRELIMIN	ARY EXAMIN	ATION REPO	RT		
	(PCT Article	36 and Rule 70)				
Applicant's or agent's file reference 663777	FOR FURTHER AC			mittal of Internation (Form PCT/IPEA/4)		
International application No.	International filing date		Priority date (da)	•		
PCT/JP2003/004681 International Patent Classification (IF A01H 1/00, C12N 15/09	14 April 2003 PC) or national classification and	 	13 April 2	2002 (15.04.2002)		
Applicant	PHYTOCULTURE CO	ONTROL CO., L	ΓĎ.			
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of 4 sheets, including this cover sheet. 						
amended and are the 70.16 and Section 60	companied by ANNEXES, i.e., s basis for this report and/or sheet 7 of the Administrative Instructions of a total ofs	s containing rectific ons under the PCT).	on, claims and/or d ations made before	lrawings which have be this Authority (see R		
	ions relating to the following iter	ns:				
I Basis of the	report					
П Priority						
III Non-establi	shment of opinion with regard to	novelty, inventive s	tep and industrial a	pplicability		
, ' '	ty of invention					
V Reasoned st citations and	tatement under Article 35(2) wit d explanations supporting such s	h regard to novelty, i	aventive step or inc	iustriai applicaointy;		
VI Certain doc	numents cited					
VII Certain defe	ects in the international applicati	on	,			
VIII Certain obs	ervations on the international ap	plication				
Date of submission of the demand		Date of completion	of this report			
05 November 200	3 (05.11.2003)	13 F	ebruary 2004 (13.02.2004)		
Name and mailing address of the IF	'ЕА/ЈР	Authorized officer				
Facsimile No.	Ť	Telephone No.				

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/004681

I.	Basi	s of the r	eport			
1	. Wit	h regard t	to the elements of the international application:*			
	\boxtimes	the int	ernational application as originally filed			
		the des	cription:			
		pages	, as originally filed			
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ĺ		pages	, as amended (together with any statement under Article 19			
		pages	, filed with the demand			
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	Ш	the seque	ence listing part of the description:			
		pages	, as originally filed			
		pages	, filed with the demand			
		pages	, filed with the letter of			
2.	mrc i	se elemen the lan the lan	to the language, all the elements marked above were available or furnished to this Authority in the language in which nal application was filed, unless otherwise indicated under this item. atts were available or furnished to this Authority in the following language which is: aguage of a translation furnished for the purposes of international search (under Rule 23.1(b)). aguage of publication of the international application (under Rule 48.3(b)).			
2	W:+	or 55.5	[*]			
٥.	prel	ummary C	to any nucleotide and/or amino acid sequence disclosed in the international application, the international xamination was carried out on the basis of the sequence listing: ned in the international application in written form.			
		filed to	gether with the international application in computer readable form.			
			ed subsequently to this Authority in written form.			
			ed subsequently to this Authority in computer readable form.			
		The st	atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the tional application as filed has been furnished.			
	Ш	The sta	atement that the information recorded in computer readable form is identical to the written sequence listing has unished.			
4.		The am	endments have resulted in the cancellation of:			
			the description, pages			
			the claims, Nos.			
			the drawings, sheets/fig			
5.		This rep	nort has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
		icement s is report 10.17).	heets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16			
**	** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.					

International application No. PCT/JP 03/04681

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-15 <u>.</u>	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
•		Claims	1-15	NO
	Industrial applicability (IA)	Claims	1-15	YES
		Claims		NO

2. Citations and explanations

- Document 1: WO 00/63400 A (The Samuel Roberts Noble Foundation), 26 October 2000
- Document 2: Tatsuo Akai et al., "Takou-shitsu ceramic board ni yoru shokubutsu saibaihou," SHITA Rep., no. 14, pages 34-47 (1998)

(1) Claims 1 to 13.

The invention described in claims 1 to 13 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 1 discloses a feature wherein a plant cultivated in a pot containing soil is transformed using an in planta method of immersing the plant in a carrier solution holding a gene for the transformation, and a feature wherein if soil seems likely to fall out of the pot when it is being immersed, the pot is wrapped in fabric or the like in order to prevent the soil from falling out. Document 2 discloses a method for cultivating a plant wherein water and nutrients are provided to the surface of a microporous material in which seeds are germinated and grown.

The invention disclosed in document 1 addresses the problem of soil falling out of a pot, and applying the non-soil cultivation method disclosed in document 2 as a

International application No. PCT/JP 03/04681

means of solving said problem instead of holding loose soil in place with fabric or the like is not recognized as presenting any particular difficulty. Moreover, a person skilled in the art could easily predict the effect of doing so in the light of the disclosures in documents 1 and 2.

(2) Claims 14 and 15

The invention described in claims 14 and 15 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

As discussed in item (1), a person skilled in the art could easily conceive of applying the non-soil cultivation method disclosed in document 2 to the in planta method disclosed in document 1, and thus, applying said non-soil cultivation method during a selection stage for plant transformation also falls within the range of features of which a person skilled in the art could easily conceive. Moreover, a person skilled in the art could easily predict the effect of doing so in the light of the disclosures in documents 1 and 2.